

CLAIMS

1. A photocatalyst coating liquid comprising (A) titanium oxide fine particles formed of anatase type crystal
5 as a main component, (B) colloidal silica and (C) a binder formed of a hydrolysis-condensate of a titanium alkoxide, and having, based on the total solid content, a component (A) content of 5 to 50 mass%, a component (B) content, as a solid content, of 25 to 75 mass% and a component (C)
10 content, as a TiO_2 solid content, of 10 to 55 mass%.
2. The photocatalyst coating liquid of claim 1, which comprises, as a solvent, an ethylene glycol monoalkyl ether or a mixture of ethylene glycol monoalkyl ether with a
15 monoalcohol having 4 carbon atoms or less.
3. The photocatalyst coating liquid of claim 2, which comprises, as a solvent, the ethylene glycol monoalkyl ether and the monoalcohol having 4 carbon atoms or less in a mass
20 ratio of 10:0 to 4:6.
4. A photocatalyst film formed from the photocatalyst coating liquid recited in any one of claims 1 to 3.
- 25 5. The photocatalyst film of claim 4, which is formed by holding a coating film formed from the photocatalyst coating liquid on an organic substrate, at a temperature of 200°C or lower.

6. The photocatalyst film of claim 5, which is formed on an intermediate layer on an organic substrate.

7. The photocatalyst film of claim 6, wherein the intermediate layer is an organic-inorganic composite graded film.

8. A photocatalyst member having the photocatalyst film recited in any one of claims 4 to 7 on a surface thereof.